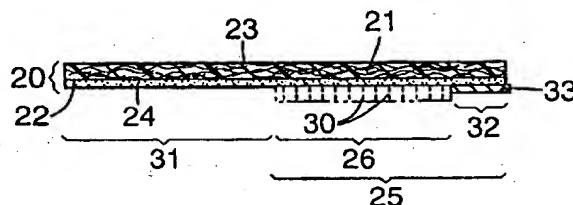




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(21) International Application Number: PCT/US99/25781 (22) International Filing Date: 2 November 1999 (02.11.99) (30) Priority Data: 98203867.1 19 November 1998 (19.11.98) EP (71) Applicant (for all designated States except US): 3M INNOVATIVE PROPERTIES COMPANY [US/US]; 3M Center, Post Office Box 33427, Saint Paul, MN 55133-3427 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): VON JAKUSCH, Egbert, A. [DE/DE]; Obenflachsberg 98, D-42653 Solingen (DE). JUNG, Dieter [DE/DE]; Moerser Strasse 31c, D-47447 Moers (DE). (74) Agents: BOND, William, J. et al.; 3M Innovative Properties Company, Office of Intellectual Property Counsel, P.O. Box 33427, Saint Paul, MN 55133-3427 (US).		(81) Designated States: AE, AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), DM, EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>

(54) Title: NON-WOVEN ADHESIVE TAPE FOR THE MANUFACTURING OF A DIAPER CLOSURE SYSTEM



(57) Abstract

The present invention provides an adhesive tape comprising a backing comprising a fibrous layer of woven fibers or of non-woven fibers of a thermoplastic polymer, said backing comprising on said fibrous layer a silicone release layer and the side of the backing opposite to the side comprising said silicone release layer comprises a pressure sensitive adhesive layer, said silicone release layer comprising a cured reaction product of a curable composition comprising (i) a polydialkylsiloxane having acrylate and/or methacrylate groups and (ii) an organic compound free of silicon and comprising at least two reactive groups selected from the group consisting of an acrylate and a methacrylate group, said adhesive tape having a 90° peel adhesion of at least 6 N/2.54 cm relative to a polyethylene film surface and said adhesive tape having a Keil test value of not more than 1 N/2.54 cm. The adhesive tape is suitable for making cloth-like closure systems for absorbent articles such as diapers.